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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/451,506	11/30/1999	GRAHAM W. GLASS	019778.0212	9157

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07/03/2002

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EXAMINER

MIRZA, ADNAN M

ART UNIT

PAPER NUMBER

2152

DATE MAILED: 07/03/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/451,506

Applicant(s)

GLASS, GRAHAM W.

Examiner

Adnan M Mirza

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 30 November 1999.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-14 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claim 1-14 rejected under 35 U.S.C. 103(a) as being unpatentable over Apte et al (U.S. 6,269,373) and in view of Chang (U.S. 6,282,580).

As per claim 1 Apte disclosed a system for communication between an object request broker and a CORBA object request broker, comprising: an object request broker executing on a first system and providing inter-object communication support between the first system and a second system, the first. System connected to the second system by a network (col. 9, lines 50-67);

However Apte failed to disclose a reference object in the object request broker operable to encode outgoing communications into an Internet Inter-ORB Protocol (IIOP) format, the reference object further operable to decode incoming communications from Internet Inter-ORB Protocol (IIOP) format into a format native to the object request broker. In the same field of endeavor Chang disclosed a reference object in the object request broker operable to encode outgoing communications into an Internet Inter-ORB Protocol (IIOP) format, the reference object further operable to decode incoming communications from Internet Inter-ORB Protocol (IIOP) format into a format native to the object request broker (col. 6, lines 40-63).

It would have been obvious to one having ordinary skill in the art at the time of the invention was made to have incorporated Object Request Broker to encode and decode outgoing and

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incoming communications from the Internet as taught by Chang in the system of Apte to make the communication among the systems more secure.

3. As per claim 2 Apte disclosed a CORBA object request broker executing on the second system (col. 9, lines 50-55).

4. As per claim 3 Apte disclosed one or more streamers coupled to the reference object, the one or more streamers corresponding in number to methods of a target object, the one or more streamers serially sending bytes of outgoing communications to the second object request broker (col. 18, lines 29-52).

5. As per claim 4 Apte disclosed a client application on the first system (col. 9, lines 50-55).

6. As per claim 5 Apte disclosed a target object on the second system (col. 9, line 59-67).

7. As per claim 6 Apte disclosed wherein the reference object provides a functionality of a CORBA stub without a separate CORBA stub (col. 10, lines 29-41).

8. As per claim 7 Apte disclosed wherein the reference object provides a functionality of a CORBA skeleton without a separate CORBA skeleton (col. 10, lines 29-41).

9. As per claim 8 Apte disclosed wherein a remote proxy sends the outgoing communication to the reference object (col. 12, lines 47-54).

10. As per claim 9 Apte disclosed wherein the remote proxy receives the outgoing communication from an application on the first system (col. 12, lines 47-59).

11. As per claim 10 Chang disclosed wherein the reference object receives incoming communications from the second system (col. 6, lines 44-51).

12. As per claim 11 Apte disclosed wherein the reference object obviates CORBA stubs and CORBA skeletons used in CORBA object request brokers (col. 10, lines 34-41).

13. As per claim 12 Apte-Chang disclosed a method for communication between an object request broker and a CORBA object request broker, comprising: invoking a method of a target object on a first system by an application on a second system (Apte, col. 7, lines 7-17); forwarding the method invocation to a reference object in a second object request broker executing on the second system (Apte, col. 10, lines 4-18); encoding the method invocation into Internet Inter-ORB Protocol (IIOP) format (Chang, col. 4, lines 32-44); sending the encoded method invocation to a first object request broker executing on the first system; and invoking the method on the target object (Chang, col. 6, lines 44-65).

14. As per claim 13 Chang disclosed wherein sending the encoded method invocation includes: forwarding the encoded method invocation to one of one or more streamer objects corresponding to a method invoked by the encoded method invocation (col. 4, lines 32-38); and serially streaming bytes of the encoded method invocation to the first object request broker (col. 4, lines 39-44).

15. As per claim 14 Chang disclosed forwarding a result of the method invocation to the first object request broker; transmitting the result to the second object request broker executing on the second system (col. 6, lines 52-59); receiving the result encoded in Internet Inter-ORB Protocol (IIOP) format in the reference object; decoding the result into a format native to the second object request broker; and forwarding the result to the application (col. 4, lines 32-49 & col. 6, lines 60-67).

Conclusion

16. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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Martin et al (U.S. 5,867,706) discloses the name convention of the resources over the network.

17. Any inquiry concerning this communication or earlier communication from the examiner should be directed to Adnan Mirza whose telephone number is (703)-305-4633.

18. The examiner can normally be reached on Monday to Friday during normal business hours.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Rinehart can be reached on (703)-305-4815. The fax for this group is (703)-746-7239.

19. The fax phone numbers for the organization where this application or proceeding is assigned are as follows:

(703)-746-7239 (For Status Inquiries, Informal or Draft Communications, please label "PROPOSED" or "DRAFT");

(703)-746-7239 (For Official Communications Intended for entry, please mark "EXPEDITED PROCEDURE"),

(703)-746-7238 (For After Final Communications).

20. Any Inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)-305-3900.

Any response to a final action should be mailed to:

BOX AF

Commissioner of Patents and Trademarks Washington, D.C.20231

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Or faxed to:

Hand-delivered responses should be brought to 4th Floor Receptionist, Crystal Park II,
2021 Crystal Drive, Arlington, VA 22202.

AM

Adnan Mirza

Examiner

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MEHMET B. GECKIL
PRIMARY EXAMINER

Mehmet Geckil